



# START

## Department of Energy

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92-RTB-004

SEP 30 1992

Mr. Paul T. Day  
Hanford Project Manager  
U.S. Environmental Protection Agency  
Region 10  
712 Swift Boulevard, Suite 5  
Richland, Washington 99352

Mr. David B. Jansen, P.E.  
Hanford Project Manager  
State of Washington  
Department of Ecology  
P.O. Box 47600  
Olympia, Washington 98504-7600



Dear Messrs. Day and Jansen:

SUCCESSFUL COMPLETION OF WASTE RETRIEVAL TECHNOLOGY DEMONSTRATION, INTERIM MILESTONE M-06-02

Reference: Letter, L. Erickson, RL, to S. McKinney, Ecology, and D. R. Sherwood, EPA, "Completion of the M-06-02 Interim Milestone, 92-RTB-001, dated September 15, 1992. 0023516

This letter serves to document the successful completion of all activities required to meet the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) interim Milestone M-06-02, due October 1992. This milestone requires, "Initiate Waste Retrieval Testing in Scale-Model Tank."

The referenced letter invited members of the State of Washington Department of Ecology and the U. S. Environmental Protection Agency to witness the proceedings. The demonstration was held on September 24, 1992, at the 300 Area on the Hanford Site. The milestone was achieved by a cold test using simulated waste materials which approximated wastes contained within single-shell tanks at Hanford. Demonstrated were manipulators, end effectors, conveyance systems, and control systems supporting deployment of a long-reach robotics arm retrieval system. Demonstrated tools included mini-lab operation (in-situ viscosity, chemical species analysis), in-tank hardware sectioning, and hard saltcake simulant rubblizing. Sludge retrieval and conveyance were demonstrated via the use of a sludge removal end effector and an air conveyance system. All these systems were remotely controlled by computer interfaces developed for this activity. A full report will be generated on this demonstration. Attached is a handout provided at the demonstration, titled, " Retrieval Technology Development Demonstration", which gives an overview of the test bed, the waste dislodging tools, the positioning systems, the sensor systems, and the control systems.

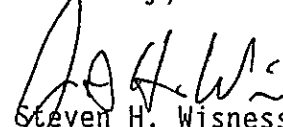
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This milestone was completed in excess of one month earlier than required by the Tri-Party Agreement, and demonstrates the commitment by the U. S. Department of Energy (DOE) to single-shell tank waste retrieval technology development. It indicates the progress already made by DOE and its contractors in developing tools and systems for waste retrieval, and paves the way for the continued development and implementation of these technologies to retrieve the contents of the single-shell tanks at Hanford. The DOE looks forward to continued progress and successes in its single-shell tank waste retrieval programs.

If you have any questions on this subject, please contact Wendell Wrzesinski, of the Retrieval and Treatment Division at (509) 376-6751.

Sincerely,

  
Steven H. Wisness  
Hanford Project Manager

Attachment

cc: S. McKinney, Ecology  
D. Sherwood, EPA  
D. E. Trader, RDD

cc w/o att:  
B. A. Austin, WHC  
Dave Pabst, WHC  
Eric Shen, WHC

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Subject: SUCCESSFUL COMPLETION OF WASTE RETRIEVAL TECHNOLOGY DEMONSTRATION,  
INTERIM MILESTONE M-06-02

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